

L28 ANSWER 1 OF 2 CA COPYRIGHT 2009 ACS on STN  
 AN 140:168359 CA  
 ED Entered STN: 04 Mar 2004  
 TI Lightweight calcium silicate articles having high strength and  
 their manufacture from crystalline silicic acid raw materials and  
 calcareous materials  
 IN Takahashi, Keiji; Arakawa, Shuichi  
 PA Konoshima Chemical Co., Ltd., Japan  
 SO Jpn. Kokai Tokkyo Koho, 12 pp.  
 CODEN: JKXXAF  
 DT Patent  
 LA Japanese  
 IC ICM C01B033-24  
 ICS B28B003-02; C04B028-20  
 CC 58-4 (Cement, Concrete, and Related Building Materials)  
 Section cross-reference(s): 49  
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 2004051379	A	20040219	JP 2002-206827	20020716
PRAI JP 2002-206827		20020716		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
JP 2004051379	ICM	C01B033-24
	ICS	B28B003-02; C04B028-20
	IPCI	C01B0033-24 [ICM, 7]; C01B0033-00 [ICM, 7, C*]; B28B0003-02 [ICS, 7]; C04B0028-20 [ICS, 7]; C04B0028-00 [ICS, 7, C*]
	IPCR	B28B0003-02 [I, A]; B28B0003-02 [I, C*]; C01B0033-00 [I, C*]; C01B0033-24 [I, A]; C04B0028-00 [I, C*]; C04B0028-20 [I, A]
	FTERM	4G012/PA17; 4G012/PA20; 4G012/PA22; 4G012/PA23; 4G012/PA24; 4G054/AA01; 4G054/AA15; 4G054/BA00; 4G054/BA02; 4G054/BA22; 4G073/BA11; 4G073/BD26; 4G073/CC08; 4G073/CC13; 4G073/FB09; 4G073/FB11; 4G073/FC01; 4G073/FC03; 4G073/FC12; 4G073/UB05

AB The articles are manufactured by (1) addition of water to 50-80 weight% of  
 the total solid raw materials, consisting of crystalline silicic acid raw  
 materials and calcareous materials, for hydrothermal synthesis of Ca  
 silicate hydrate seed crystals and then pressing in an aqueous slurry  
 containing  
 the residual 20-50 weight% of the solid raw materials to obtain Ca  
 silicate hydrate which is shaped by dehydration and dried to give the  
 title articles. Thus manufactured articles, having heat  
 resistance, are also claimed. The articles show small drying  
 shrinkage on their manufacture  
 ST lightwt calcium silicate hydrate article  
 manuf; drying shrinkage small calcium silicate article; heat resistant  
 calcium silicate article manuf; hydrothermal reaction lightwt calcium  
 silicate article manuf  
 IT Lightweight materials